

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/551,157
Source: IFW0
Date Processed by STIC: 11/15/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/10/551,157

TIME: 11:15:35

Input Set : A:\59150-8036-seqlist.txt

Output Set: N:\CRF4\11152006\J551157.raw

3 <110> APPLICANT: Tohyama, Masaya
 4 Yamashita Toshihide
 5 Tanaka, Hiroyuki
 6 Higuchi, Haruhisa
 8 <120> TITLE OF INVENTION: COMPOSITION AND METHOD FOR NERVE REGENERATION
 10 <130> FILE REFERENCE: 59150-8036
 12 <140> CURRENT APPLICATION NUMBER: US 10/551,157
 C--> 13 <141> CURRENT FILING DATE: 2005-09-28
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/004385
 16 <151> PRIOR FILING DATE: 2004-03-26
 18 <150> PRIOR APPLICATION NUMBER: JP 2003-092923
 19 <151> PRIOR FILING DATE: 2003-03-28
 21 <150> PRIOR APPLICATION NUMBER: JP 2003-125681
 22 <151> PRIOR FILING DATE: 2003-04-30
 24 <150> PRIOR APPLICATION NUMBER: JP 2003-284559
 25 <151> PRIOR FILING DATE: 2003-07-31
 27 <160> NUMBER OF SEQ ID NOS: 27
 29 <170> SOFTWARE: PatentIn version 3.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 45
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Synthetic Degenerate Sequence
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (12)..(12)
 42 <223> OTHER INFORMATION: "n" is A ,C,G or T.
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature
 46 <222> LOCATION: (15)..(15)
 47 <223> OTHER INFORMATION: "n" is A ,C,G or T.
 49 <220> FEATURE:
 50 <221> NAME/KEY: misc_feature
 51 <222> LOCATION: (18)..(18)
 52 <223> OTHER INFORMATION: "n" is A ,C,G or T.
 54 <220> FEATURE:
 55 <221> NAME/KEY: misc_feature
 56 <222> LOCATION: (36)..(36)
 57 <223> OTHER INFORMATION: "n" is A ,C,G or T.
 59 <220> FEATURE:
 61 <221> NAME/KEY: misc_feature
 62 <222> LOCATION: (39)..(39)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,157

DATE: 11/15/2006

TIME: 11:15:35

Input Set : A:\59150-8036-seqlist.txt

Output Set: N:\CRF4\11152006\J551157.raw

63 <223> OTHER INFORMATION: "n" is A ,C,G or T.

65 <400> SEQUENCE: 1

W--> 66 tgytattyttym gngggnggntt yttayaaycay aayccnmngnt aytgy 45

68 <210> SEQ ID NO: 2

69 <211> LENGTH: 15

70 <212> TYPE: PRT

71 <213> ORGANISM: Artificial Sequence

73 <220> FEATURE:

74 <223> OTHER INFORMATION: Synthetic Sequence

76 <400> SEQUENCE: 2

77 Cys Phe Phe Arg Gly Gly Phe Phe Asn His Asn Pro Arg Tyr Cys

78 1 5 10 15

80 <210> SEQ ID NO: 3

81 <211> LENGTH: 3386

82 <212> TYPE: DNA

83 <213> ORGANISM: Homo sapiens

85 <400> SEQUENCE: 3

86 gccgcggcca gctccggcgg gcaggggggg cgctggagcg cagcgcagcg cagccccatc 60

87 agtccgcaaa gcggaccgag ctggaagtcg agcgtgccc cgggaggcgg gcgatggggg 120

88 caggtgccac cggccgcgcc atggacgggc cgcgcctgct gctgttgctg cttctggggg 180

89 tgtcccttgg aggtgccaag gaggcagcc ccacaggcct gtacacacac agcggtgagt 240

90 gctgcaaagc ctgcaacctg ggcgagggtg tggcccagcc ttgtggagcc aaccagaccg 300

91 tgtgtgagcc ctgcctggac agcgtgacgt tctccgacgt ggtgagcgcg accgagccgt 360

92 gcaagccgtg caccgagtg cgtggggctcc agagcatgtc ggcgccgtgc gtggaggccg 420

93 acgacgccgt gtgccgctgc gcctacggct actaccagga tgagacgact gggcgctgcg 480

94 aggcgtgccg cgtgtgcgag gcgggctcgg gcctcgtgtt ctccctgccg gacaagcaga 540

95 acaccgtgtg cgaggagtgc cccgacggca cgtattccga cgaggccaac cacgtggacc 600

96 cgtgcctgcc ctgcaccgtg tgcaggaca ccgagcgcca gctccgcgag tgcacacgct 660

97 gggccgacgc cgagtgcgag gagatccctg gccgttggat tacacgggtc acacccccag 720

98 agggctcgga cagcacagcc cccagcacc aggagcctga ggcacctcca gaacaagacc 780

99 tcataccag cacggtggca ggtgtggtga ccacagtgt ggcagctcc cagcccgtgg 840

100 tgacccgagg caccaccgac aacctcatcc ctgtctattg ctccatcctg gctgctgtgg 900

101 ttgtgggcct tgtggcctac atagccttca agagggtgaa cagctgcaag cagaacaagc 960

102 aaggagccaa cagccggcca gtgaaccaga cgcgccacc agaggagaa aaactccaca 1020

103 gcgacagtgg catctccgtg gacagccaga gcctgcatga ccagcagccc cacacgcaga 1080

104 cagcctcggg ccaggccctc aagggtgacg gaggcctcta cagcagcctg ccccagcca 1140

105 agcgggagga ggtggagaag cttctcaacg gctctgcggg ggacacctgg cggcacctgg 1200

106 cgggcgagct gggctaccag cccgagcaca tagactcctt taccatgag gcctgccccg 1260

107 ttcgcgccct gcttgcaagc tgggccaccc aggacagcgc cacactggac gccctcctgg 1320

108 ccgccctgcg ccgcatccag cgagccgacc tcgtggagag tctgtgcagt gagtccactg 1380

109 ccacatcccc ggtgtgagcc caaccgggga gccccgcgcc cgccccacat tccgacaacc 1440

110 gatgctccag ccaacccctg tggagcccgc acccccaccc tttggggggg gccgcctgg 1500

111 cagaactgag ctccctctgg caggacctca gagtccaggc cccaaaacca cagccctgtc 1560

112 agtgcagccc gtgtggcccc ttcaattctg accacacttc ctgtccagag agagaagtgc 1620

113 ccctgctgcc tccccaaacc tgcccctgcc ccgtcaccat ctcaggccac ctgccccctt 1680

114 ctcccacact gctaggtggg ccagcccctc ccaccacagc aggtgtcata tatggggggc 1740

115 caacaccagg gatggtacta gggggaagtg acaaggcccc agagactcag agggaggaat 1800

116 cgaggaacca gagcatgga ctctacactg tgaacttggg gaacaagggt ggcatcccag 1860

117 tggcctcaac cctccctcag cccctcttgc cccccacccc agcctaagat gaagaggatc 1920

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,157

DATE: 11/15/2006

TIME: 11:15:35

Input Set : A:\59150-8036-seqlist.txt

Output Set : N:\CRF4\11152006\J551157.raw

```

118 ggaggtctgt cagagctggg aggggttttc gaagctcagc ccacccccct cattttggat 1980
119 ataggtcagt gaggcccagg gagaggccat gattcgccca aagccagaca gcaacgggga 2040
120 ggccaagtgc aggtctggcac cgccttctct aaatgagggg cctcagggtt gcctgagggc 2100
121 gaggggaggg tggcaggtga ccttctggga aatggcttga agccaagtca gctttgcctt 2160
122 ccacgtctgc tccagacccc cacccttcc ccactgcctg cccacccgtg gagatgggat 2220
123 gcttgcctag ggcctggtcc atgatggagt caggtttggg gttcgtggaa aggggtctgc 2280
124 ttccctctgc ctgtccctct caggcatgcc tgtgtgacat cagtggcatg gctccagtct 2340
125 gctgccctcc atcccgcacat ggacccggag ctaacactgg cccctagaat cagcctaggg 2400
126 gtcagggacc aaggacccct caccttgcaa cacacagaca cagcacaca cacacacagg 2460
127 aggagaaatc tcacttttct ccatgagttt tttctcttgg gctgagactg gatactgccc 2520
128 ggggcagctg ccagagaagc atcggagggg attgaggtct gctcggccgt cttcactcgc 2580
129 ccccggtttt ggcgggccaa ggactgccga ccgaggctgg agctggcgct tgtcttcaag 2640
130 ggcttacacg tggaggaatg ctccccatc ctccccctcc ctgcaaacad ggggttggct 2700
131 gggcccagaa ggttgcgatg aagaaaagcg ggcagtggtg ggaatgcggc aagaaggaa 2760
132 tgacttcgac tgtgacctgt ggggatttct cccagctcta gacaaccctg caaaggactg 2820
133 ttttttccct agcttggcca gaagggggcc atgaggcctc agtggacttt ccacccccctc 2880
134 cctggcctgt tctgttttgc ctgaagtggg agtgagtgtg gctccccctc atttagcatg 2940
135 acaagcccca ggcaggctgt gcgctgacaa ccaccgctcc ccagcccagg gttccccccag 3000
136 ccctgtggaa gggactagga gcactgtagt aaatggcaat tctttgacct caacctgtga 3060
137 tgaggggagg aaactcacct gctggcccct cacctgggca cctggggagt gggacagagt 3120
138 ctgggtgtat ttattttcct ccccagcagg tggggagggg gtttggtggc ttgcaagtat 3180
139 gtttttagcat gtgtttggtt ctggggcccc tttttactcc ccttgagctg agatggaacc 3240
140 cttttggccc ccagctgggg gccatgagct ccagaccccc agcaaccctc ctatcacctc 3300
141 ccctccttgc ctctgtgtga atcatttctt gggccctcct gaaacttaca cacaaaacgt 3360
142 taagtgatga acattaaata gcaaaag 3386

```

144 <210> SEQ ID NO: 4

145 <211> LENGTH: 427

146 <212> TYPE: PRT

147 <213> ORGANISM: Homo sapiens

149 <400> SEQUENCE: 4

```

150 Met Gly Ala Gly Ala Thr Gly Arg Ala Met Asp Gly Pro Arg Leu Leu
151 1 5 10 15
152 Leu Leu Leu Leu Leu Gly Val Ser Leu Gly Gly Ala Lys Glu Ala Cys
153 20 25 30
154 Pro Thr Gly Leu Tyr Thr His Ser Gly Glu Cys Cys Lys Ala Cys Asn
155 35 40 45
156 Leu Gly Glu Gly Val Ala Gln Pro Cys Gly Ala Asn Gln Thr Val Cys
157 50 55 60
158 Glu Pro Cys Leu Asp Ser Val Thr Phe Ser Asp Val Val Ser Ala Thr
159 65 70 75 80
160 Glu Pro Cys Lys Pro Cys Thr Glu Cys Val Gly Leu Gln Ser Met Ser
161 85 90 95
162 Ala Pro Cys Val Glu Ala Asp Asp Ala Val Cys Arg Cys Ala Tyr Gly
163 100 105 110
164 Tyr Tyr Gln Asp Glu Thr Thr Gly Arg Cys Glu Ala Cys Arg Val Cys
165 115 120 125
166 Glu Ala Gly Ser Gly Leu Val Phe Ser Cys Gln Asp Lys Gln Asn Thr
167 130 135 140
168 Val Cys Glu Glu Cys Pro Asp Gly Thr Tyr Ser Asp Glu Ala Asn His

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,157

DATE: 11/15/2006

TIME: 11:15:35

Input Set : A:\59150-8036-seqlist.txt

Output Set : N:\CRF4\11152006\J551157.raw

```

169 145          150          155          160
170 Val Asp Pro Cys Leu Pro Cys Thr Val Cys Glu Asp Thr Glu Arg Gln
171          165          170          175
172 Leu Arg Glu Cys Thr Arg Trp Ala Asp Ala Glu Cys Glu Glu Ile Pro
173          180          185          190
174 Gly Arg Trp Ile Thr Arg Ser Thr Pro Pro Glu Gly Ser Asp Ser Thr
175          195          200          205
176 Ala Pro Ser Thr Gln Glu Pro Glu Ala Pro Pro Glu Gln Asp Leu Ile
177          210          215          220
178 Ala Ser Thr Val Ala Gly Val Val Thr Thr Val Met Gly Ser Ser Gln
179 225          230          235          240
180 Pro Val Val Thr Arg Gly Thr Thr Asp Asn Leu Ile Pro Val Tyr Cys
181          245          250          255
182 Ser Ile Leu Ala Ala Val Val Val Gly Leu Val Ala Tyr Ile Ala Phe
183          260          265          270
184 Lys Arg Trp Asn Ser Cys Lys Gln Asn Lys Gln Gly Ala Asn Ser Arg
185          275          280          285
186 Pro Val Asn Gln Thr Pro Pro Pro Glu Gly Glu Lys Leu His Ser Asp
187          290          295          300
188 Ser Gly Ile Ser Val Asp Ser Gln Ser Leu His Asp Gln Gln Pro His
189 305          310          315          320
190 Thr Gln Thr Ala Ser Gly Gln Ala Leu Lys Gly Asp Gly Gly Leu Tyr
191          325          330          335
192 Ser Ser Leu Pro Pro Ala Lys Arg Glu Glu Val Glu Lys Leu Leu Asn
193          340          345          350
194 Gly Ser Ala Gly Asp Thr Trp Arg His Leu Ala Gly Glu Leu Gly Tyr
195          355          360          365
196 Gln Pro Glu His Ile Asp Ser Phe Thr His Glu Ala Cys Pro Val Arg
197          370          375          380
198 Ala Leu Leu Ala Ser Trp Ala Thr Gln Asp Ser Ala Thr Leu Asp Ala
199 385          390          395          400
200 Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala Asp Leu Val Glu Ser
201          405          410          415
202 Leu Cys Ser Glu Ser Thr Ala Thr Ser Pro Val
203          420          425

```

205 <210> SEQ ID NO: 5

206 <211> LENGTH: 1921

207 <212> TYPE: DNA

208 <213> ORGANISM: Homo sapiens

210 <400> SEQUENCE: 5

```

211 ggcacgaggg ggcgccgac gacgttcgtc atttagtgcg ggagggatcc tgaaccgcgc      60
212 ggccgaaccc tccggtgtcc cgacccaggc taagcttgag catggctgag caggagccca      120
213 cagccgagca gctggccag attgcagcgg agaacgagga ggatgagcac tcggtcaact      180
214 acaagcccc ggccagaag agcatccagg agatccagga gctggacaag gacgacgaga      240
215 gctgcgaaa gtacaaggag gccctgctgg gccgctggc cgtttccgca gacccaacg      300
216 tcccaacgt cgtggtgact ggctgaccc tgggtgtcag ctcgccccg ggcccctgg      360
217 agctggacct gacggcgac ctggagagct tcaagaagca gtcgtttgtg ctgaaggagg      420
218 gtgtggagta ccgataaaa atctctttcc gggttaaccg agagatagtg tccggcatga      480
219 agtacatcca gcatacgtac aggaaaggcg tcaagattga caagactgac tacatggtag      540

```

RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/10/551,157

TIME: 11:15:35

Input Set : A:\59150-8036-seqlist.txt

Output Set: N:\CRF4\11152006\J551157.raw

```

220 gcagctatgg gccccggggc gaggagtacg agttcctgac ccccggtggag gaggcaccca      600
221 agggatatgct ggccccggggc agctacagca tcaagtcccg cttcacagac gacgacaaga      660
222 ccgaccacct gtcctgggag tggaatctca ccatcaagaa ggactggaag gactgagccc      720
223 agccagaggc gggcagggca gactgacgga cggacgacgg acaggcggat gtgtcccccc      780
224 cagcccctcc cctccccata ccaaagtgtg gacaggccct ccgtgcccct cccaccctgg      840
225 tccgcctccc tggcctggct caaccgagtg cctccgaccc ccctcctcag ccctccccc      900
226 cccacaggcc cagcctcctc ggtctcctgt ctcggtgctg cttctgcctg tgctgtgggg      960
227 gagagaggcc gcagccaggc ctctgctgcc ctttctgtgc cccccaggtt ctatctcccc     1020
228 gtcacacccg aggcctggct tcaggaggga gcggagcagc cattctccag gccccgtggt     1080
229 tgcccctgga cgtgtgctc tgctgtcccg ggggtggagct ggggtgtggg atgcacggcc     1140
230 tcgtgggggc cgggcctcc tccagccccg ctgctccctg gccagcccc ttgtcgtgtg     1200
231 cggctccctc taacctgat gccttaacat gtggagtgtg ccgtggggcc tactagcct     1260
232 ctaactccct gtgtctgcat gagcatgtgg cctccccgtc cttccccggg tggcgaacct     1320
233 agtgaccagg ggacacgtgg ggtgtgtctg tgctgtctcc cagcccacca gtgcctggcc     1380
234 agcctgcccc cttccctgga cagggtctgt gagatggctc cggcggcttg gggaaagcca     1440
235 aattgccaaa actcaagtca cctcagtagc atccaggagg ctgggtattg tctgcctct     1500
236 gccttttctg tctcagcggg cagtgcctcag agcccacacc cccccaagag ccctcgatgg     1560
237 acagcctcac ccaccccacc tgggcccagc caggagcccc gcctggccat cagtatttat     1620
238 tgccctccgtc cgtgccgtcc ctgggccact ggctggcgcc ctgttcccc aggcctctcag     1680
239 tgccaccacc cccggcaggc cttccctgac ccagccagga acaaacaagg gaccaagtgc     1740
240 acacattgct gagagccgtc tctgtgtcct cccccgccc atccccggtc ttcgtgttgt     1800
241 gtctgccagg ctcaggcaga ggcgctgtc cctgcttctt ttctgaccgg gaaataaatg     1860
242 cccctgaagg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1920
243 a                                                                                   1921
245 <210> SEQ ID NO: 6
246 <211> LENGTH: 204
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 6
251 Met Ala Glu Gln Glu Pro Thr Ala Glu Gln Leu Ala Gln Ile Ala Ala
252 1                    5                    10                    15
253 Glu Asn Glu Glu Asp Glu His Ser Val Asn Tyr Lys Pro Pro Ala Gln
254 20                    25                    30
255 Lys Ser Ile Gln Glu Ile Gln Glu Leu Asp Lys Asp Asp Glu Ser Leu
256 35                    40                    45
257 Arg Lys Tyr Lys Glu Ala Leu Leu Gly Arg Val Ala Val Ser Ala Asp
258 50                    55                    60
259 Pro Asn Val Pro Asn Val Val Val Thr Gly Leu Thr Leu Val Cys Ser
260 65                    70                    75                    80
261 Ser Ala Pro Gly Pro Leu Glu Leu Asp Leu Thr Gly Asp Leu Glu Ser
262 85                    90                    95
263 Phe Lys Lys Gln Ser Phe Val Leu Lys Glu Gly Val Glu Tyr Arg Ile
264 100                   105                   110
265 Lys Ile Ser Phe Arg Val Asn Arg Glu Ile Val Ser Gly Met Lys Tyr
266 115                   120                   125
267 Ile Gln His Thr Tyr Arg Lys Gly Val Lys Ile Asp Lys Thr Asp Tyr
268 130                   135                   140
269 Met Val Gly Ser Tyr Gly Pro Arg Ala Glu Glu Tyr Glu Phe Leu Thr
270 145                   150                   155                   160

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/551,157

DATE: 11/15/2006
TIME: 11:15:36

Input Set : A:\59150-8036-seqlist.txt
Output Set: N:\CRF4\11152006\J551157.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12, 15, 18, 36, 39

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/551,157

DATE: 11/15/2006

TIME: 11:15:36

Input Set : A:\59150-8036-seqlist.txt

Output Set: N:\CRF4\11152006\J551157.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0